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**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

application:

**LISTING OF CLAIMS:** 

1. (currently amended): A method of managing quality of service in a mobile radio

network in which protocols for communication over terrestrial interfaces comprise a radio

network layer and a transport network layer and wherein quality of service management includes

quality of service management linked to the radio network layer and quality of service

management linked to the transport network layer, said method comprising:

sending, from a first network element signals to a second network element, by means of

the radio network layer signaling protocol, at least one parameter representative of transport

quality of service or of quality of service for the transport network layer,

managing, by the [a] second network element, uses the transport quality of service

according to said at least one parameter for transport quality of service management for uplink

transmission over an Iub interface between a controlling radio network controller and a Node B.

or for uplink transmission over an lur interface between a serving radio network controller and a

drift radio network controller and/or downlink transmission over an lub interface between a drift

radio network controller and a Node B.

2. (original): A method according to claim 1, wherein said first network element is a

controlling radio network controller.

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3. (original): A method according to claim 2, wherein said second network element

is a Node B or a base station.

4. (previously presented): A method according to either claim 2, wherein said radio

network layer signaling protocol is a Node B Application Part protocol applicable to the Iub

interface between the controlling radio network controller and the Node B.

5. (canceled).

6. (original): A method according to claim 1, wherein said first network element is a

serving radio network controller.

7. (original): A method according to claim 6, wherein said second network element

is a drift radio network controller.

8. (previously presented): A method according to claim 6, wherein said radio

network layer signaling protocol is a Radio Network Subsystem Application Part signaling

protocol applicable to the Iur interface between the serving radio network controller and the drift

radio network controller.

9. (canceled).

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10. (previously presented): A method according to claim 1, wherein said at least one

parameter representative of transport quality of service is a specific parameter intended to

indicate a transport quality of service level.

11. (previously presented): A method according to claim 1, wherein said at least one

parameter representative of transport quality of service is at least one radio access bearer

parameter.

12. (previously presented): A method according to claim 11, wherein said at least one

radio access bearer parameter is the transfer delay.

13. (previously presented): A method according to claim 11, wherein said at least one

radio access bearer parameter is the traffic handling priority.

14. (previously presented): A method according to claim 11, wherein said at least one

radio access bearer parameter is the traffic class.

15. (previously presented): A method according to claim 11, wherein said at least one

radio access bearer parameter is copied or translated from the RANAP protocol to the NBAP

protocol, or from the RANAP protocol to the RNSAP protocol.

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16. (previously presented): A method according to claim 1, wherein said at least one parameter representative of transport quality of service is at least one parameter associated with a transport quality of service level or at least one radio access bearer parameter.

- 17. (previously presented): A method according to claim 16, wherein said at least one parameter associated with a transport quality of service level or at least one radio access bearer parameter is a time adjustment parameter, the lowest values of said parameter being assigned to connections having higher transfer delay and/or traffic handling priority constraints and the higher values of said parameter being assigned to connections having higher transfer delay and/or traffic handling priority constraints.
- 18. (previously presented): A method according to claim 17, wherein said time adjustment parameter is the time of arrival window start parameter.
- 19. (previously presented): A method according to claim 16, wherein said at least one parameter associated with a level of transport quality of service or at least one radio access bearer parameter includes at least one parameter representative of the number of dedicated channels allocated to a connection, a high number of dedicated channels being allocated to connections having high transfer delay and/or traffic handling priority constraints and a lower number of dedicated channels being allocated to connections having lower transfer delay and/or traffic handling priority constraints.
  - 20. (previously presented): A radio network controller CRNC comprising:

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control means for controlling a Node B; and

data signalling means for signalling to the Node B in accordance with a signalling protocol of a radio network layer corresponding to the NBAP protocol applicable to the Iub interface between the radio network controller CRNC and Node B at least one parameter representing the quality of service for the transport network layer, for uplink transmission over the Iub interface between the radio network controller CRNC and the Node B.

21. (previously presented): The radio network controller CRNC according to claim 20, wherein said at least one parameter is signaled to the Node B in a Radio Link Setup Request message.

- 22. (previously presented): The radio network controller CRNC according to claim 20, wherein said at least one parameter is a specific parameter intended to indicate a transport QoS level.
  - 23. (previously presented): A radio network controller SRNC comprising: control means for controlling a Node B; and

signalling means for signalling to a radio network controller DRNC by means of a signalling protocol of a radio network layer corresponding to the RNSAP applicable to the Iur interface between radio network controller SRNC and radio network controller DRNC at least one parameter representing the quality of service for the transport network layer, for uplink transmission over the Iur interface between the radio network controller SRNC and the radio

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network controller DRNC and downlink transmission over an Iub interface between the radio

network controller DRNC and a Node B.

24. (previously presented): The radio network controller SRNC according to claim

23, wherein said at least one parameter is signaled to the Node B, through the radio network

controller DRNC in a Radio Link Setup Request message.

25. (previously presented): The radio network controller SRNC according to claim

23, wherein said at least one parameter is a specific parameter intended to indicate a transport

QoS level.

26. (previously presented): The radio network controller SRNC according to claim

24, wherein said at least one parameter is a specific parameter intended to indicate a transport

QoS level.

27. (previously presented): A radio network controller DRNC comprising:

means for receiving from a radio network controller SRNC by means of a signalling

protocol of a radio network layer corresponding to the RNSAP protocol applicable to the Iur

interface between radio network controller SRNC and radio network controller DRNC at least

one parameter representing the quality of service for the transport network layer,

means for using said at least one parameter for transport quality of service management

for the transmission in the uplink direction over the Iur interface between radio network

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controller SRNC and radio network controller DRNC and in the downlink direction over the Iub interface between radio network controller DRNC and Node B.

28. (previously presented): The radio network controller according to claim 27, further comprising means for receiving said at least one parameter in a Radio Link Setup Request message.

- 29. (previously presented): The radio network controller according to claim 27, wherein said at least one parameter corresponds to a specific parameter intended to indicate a transport QoS level.
- 30. (previously presented): The radio network controller according to claim 28, wherein said at least one parameter corresponds to a specific parameter intended to indicate a transport QoS level.
- 31. (previously presented): A Node B comprising means for receiving from a radio network controller CRNC in accordance with a signalling protocol of a radio network layer corresponding to the NBAP protocol applicable to the Iub interface between radio network controller CRNC and Node B at least one parameter representing the quality of service for the transport network layer and means for using said at least one parameter for managing the transport quality of service for transmission in the uplink direction over the Iub interface between the radio network controller CRNC and Node B.

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32. (previously presented): The Node B according to claim 31, including means for

receiving said at least one parameter in a Radio Link Setup Request message.

33. (previously presented): The Node B according to claim 31, wherein said at least

one parameter corresponds to a specific parameter intended to indicate a transport QoS level.

34. (previously presented): The Node B according to claim 32, wherein said at least

one parameter corresponds to a specific parameter intended to indicate a transport QoS level.

35. (new): A method according to claim 1, further comprising:

managing, by the second network element, the transport quality of service according to

said at least one parameter for transport quality of service management for uplink transmission

over an Iur interface between a serving radio network controller and a drift radio network

controllers.

36. (new): A method according to claim 35, further comprising:

managing, by the second network element, the transport quality of service according to

said at least one parameter for transport quality of service management for downlink

transmission over an Iub interface between a drift radio network controller and a Node B.